Monal Application No

PCT/EP2004/006613 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A23L1/29 A23L1/30 A61K31/202 A23L1/305 A61K35/74 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A23L A61K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, FSTA, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category • Citation of document, with indication, where appropriate, of the relevant passages Y 1-19 EP 0 231 904 A (MILUPA AG) 12 August 1987 (1987-08-12) page 2, lines 5-10; claims 1-6 Y US 2002/004527 A1 (0' CONNOR DEBORAH L ET 1-19 AL) 10 January 2002 (2002-01-10) pages 1-10; claims 1-21 Y 1-19 US 2003/060509 A1 (ELSWYK MARY VAN) 27 March 2003 (2003-03-27) page 1, paragraph 2; claim 41 page 4, paragraph 52-58 page 6, paragraph 84 1-5 US 5 374 657 A (KYLE DAVID J) 20 December 1994 (1994-12-20) column 1, lines 29-38; claims 1-22; examples 4-6 Further documents are listed in the continuation of box C. lχ Patent family members are listed in annex. Special categories of cited documents: *T* tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the BEST AVAILABLE COPY "A" document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the International filling date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 11/10/2004 30 September 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016

Form PCT/ISA/210 (second sheet) (January 2004)

De Jong, E

Integrational Application No PCT/EP2004/006613

C.(Continu	stion) DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/EP2004/006613
	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/017192 A1 (KANAFANI HANNY ET AL) 23 January 2003 (2003-01-23) page 1, paragraphs 5,6; claims 1-25; example 3	1-19
Y	EP 0 904 784 A (NUTRICIA NV) 31 March 1999 (1999-03-31) column 8, paragraph 58 - column 9, paragraph 64; example 7	1-19
Y	WO 02/15719 A (NESTLE SA) 28 February 2002 (2002-02-28) example 6	1
Y	US 2003/077255 A1 (SABHARWAL HEMANT K) 24 April 2003 (2003-04-24) page 2, paragraphs 10,14; claims 1-12 page 1, paragraphs 3,7	1,6, 14-16
Y	OGATA T ET AL: "EFFECT OF BIFIDOBACTERIUM LONGUM BB536 YOGHURT ADMINISTRATION ON THE INTESTINAL ENVIRONMENT OF HEALTHY ADULTS" MICROBIAL ECOLOGY IN HEALTH & DISEASE, CHICHESTER, GB, vol. 11, no. 1, March 1999 (1999-03), pages 41-46, XP009023764 the whole document	7,10, 14-19
Y	GRILL J P ET AL: "Bifidobacteria and probiotic effects: action of Bifidobacterium species on conjugated bile salts." CURRENT MICROBIOLOGY. JUL 1995, vol. 31, no. 1, July 1995 (1995-07), pages 23-27, XP008036111 ISSN: 0343-8651 the whole document	7,10, 14-19
Y	ISOLAURI E ET AL: "Probiotics in the management of atopic eczema." CLINICAL AND EXPERIMENTAL ALLERGY: JOURNAL OF THE BRITISH SOCIETY FOR ALLERGY AND CLINICAL IMMUNOLOGY. NOV 2000, vol. 30, no. 11, November 2000 (2000-11), pages 1604-1610, XP002298117 ISSN: 0954-7894 the whole document	8-10, 14-19
Υ	WO 02/060276 A (MAEYRAE-MAEKINEN ANNIKA; SUOMALAINEN TARJA (FI); VALIO LTD (FI); VAAR) 8 August 2002 (2002-08-08) the whole document	8-10, 14-19

International Application No PCT/EP2004/006613

		PCT7EP2004/006613				
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category • Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.						
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
Y	SAXELIN M: "LACTOBACILLUS GG - A HUMAN PROBIOTIC STRAIN WITH THOROUGH CLINICAL DOCUMENTATION" FOOD REVIEWS INTERNATIONAL, NEW YORK, NY, US, vol. 13, no. 2, 1997, pages 293-313, XP000199732 the whole document	8-10, 14-19				
Υ	KALLIOMAKI M ET AL: "Probiotics and prevention of atopic disease: 4-year follow-up of a randomised placebo-controlled trial" LANCET THE, LANCET LIMITED. LONDON, GB, vol. 361, no. 9372, 31 May 2003 (2003-05-31), pages 1869-1871, XP004428374 ISSN: 0140-6736 the whole document	8-10, 14-19				
Y	EP 1 048 226 A (NESTLE SA) 2 November 2000 (2000-11-02) claims 1-4; examples 1,2	1,2,4, 11-13,17				
Υ	KANKAANPAA P E ET AL: "The influence of polyunsaturated fatty acids on probiotic growth and adhesion." FEMS MICROBIOLOGY LETTERS 194 (2) 149-153 2001 DEP. OF BIOCHEM. & FOOD CHEM., UNIV. OF TURKU, 20014 TURKU, FINLAND. TEL. +358 (2) 333 6873. FAX +358 (2) 333 6860. E-MAIL PAERKA(A)UTU.FI, 2001, XP002261972 pages 152-153	1,2,4				
Υ	DE 102 19 684 A (FRIEDRICH BUESE CONSULTING GMB ;UNTERNEHMENSBERATUNG REICHENAU (DE) 14 November 2002 (2002-11-14) claims 1,10	1,2,4				
А	EP 0 880 902 A (NESTLE PRODUKTE AG) 2 December 1998 (1998-12-02) cited in the application the whole document	11				
A	DE 202 02 562 U (ORTHOMOL PHARMAZEUTISCHE VERTR) 23 May 2002 (2002-05-23) claims 1,2	6				

International Application No PCT/EP2004/006613

PC17EP2004/00661						
(Continue	ction) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	MATSUMOTO M ET AL: "ADHESIVE PROPERTY OF BIFIDOBACTERIUM LACTIS LKM512 AND PREDOMINANT BACTERIA OF INTESTINAL MICROFLORA TO HUMAN INTESTINAL MUCIN" CURRENT MICROBIOLOGY, NEW YORK, NY, US, vol. 44, no. 3, 2002, pages 212-215, XP008024172 ISSN: 0343-8651 page 212 page 215	3				

BEST AVAILABLE COPY

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT



Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: 14-19(part 7 y) because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 14-19 are directed to a method of treatment of the human body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This int	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remar	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees,

Information on patent family members

International Application No PCI7EP2004/006613

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0231904	A	12-08-1987	DE	3603000 A	1	06-08-1987
	•		AT	63425 T		15-06-1991
			DE	3770005 0)1	20-06-1991
			EP	0231904 A		12-08-1987
			GR	3001950 1	[3 	23-11-1992
US 2002004527	A1	10-01-2002	AU	5533701 /		30-10-2001
			CA	2405822 <i>F</i>	41	25-10-2001
			CN		Γ	13-08-2003
			EP	1272058 /		08-01-2003
			JP	2004518609	-	24-06-2004
			WO	0178530 /		25-10-2001
			US	2003190363 / 2002045660 /		09-10-2003 18 - 04-2002
			US	2002045660 /		18-04-2002
US 2003060509	A1	27-03-2003	WO	03017945	A2 	06-03-2003
US 5374657	Α	20-12-1994	AT	200619		15-05-2001
			AU	661297		20-07-1995
			AU	1239292		27-08-1992
			BR	9205526		19-04-1994
			CA	2101274		25-07-1992
			DE	69231793		23-05-2001
			DE	69231793		08-11-2001
			DE	568606		25-02-1999
			DK	568606		23-07-2001
			EP EP	1092352 0568606		18-04-2001 10-11-1993
			ES	2157898		01-09-2001
			GR	3036139		28-09-2001
			IL	100733		31-12 - 1995
			ĨĹ	114253		13-07-1997
			ĴΡ		B2	25-03-1998
			JP		T	16-06-1994
			MX	9200320		01-10-1992
			NZ	241359	A	26-08-1994
			OA	10348		19-10-2001
			RU	2093996		27-10-1997
			SG	49307		18-05-1998
			WO	9212711		06-08-1992
			US	5550156		27-08-1996
			ZA	9200452 	A 	28-10-1992
US 2003017192	A:	23-01-2003	CA	2451411		27-12-2002
			EP	1404185		07-04-2004
	. حــه حدد محر ر	ا سال اسا ما اسال سال سال سال سال سال سال سال سال س	WO	02102168	A1	27-12-2002
EP 0904784	A	31-03-1999	EP	0904784	A1	31-03-1999
WO 0215719	A	28-02-2002	AU	9177701		04-03-2002
			AU	9548801		04-03-2002
			BR	0113367		29-07-2003
			DD	0113390	Α	29-07-2003
			BR			00 00 0000
			CA	2418285	A1	28-02-2002
			CA CA	2418285 2419026	A1 A1	28-02-2002
			CA CA CN	2418285 2419026 1469712	A1 A1 T	28-02-2002 21-01-2004
			CA CA	2418285 2419026	A1 A1 T	28-02-2002

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Uniformation on patent family members

International Application No PCT/EP2004/006613

Patent document ited in search report		Publication date		Patent family member(s)	Publication date
0 0215719	A		WO	0215720 A2	28-02-2002
			EP	1313378 A2	28-05-2003
			EP	1313376 A2	28-05-2003
			HU	0301475 A2	28-08-2003
			HU	0301586 A2	28-08-2003
			JP	2004506436 T 2004506437 T	04-03-2004 04-03-2004
			JP US	2004506437 T 2003202992 A1	30-10-2003
			US	2002044988 A1	18-04-2002
			บร	2002044957 A1	18-04-2002
US 2003077255	A1	24-04-2003	NONE	ه ۱۰۰۰ ت ۱۰۰۰ ت برای دی به مه بینک به پورس به مه مه	
WO 02060276	Α	08-08-2002	FI	20010157 A	26-07-2002
	•••		BR	0206689 A	03-02-2004
			CA	2434337 A1	08-08-2002
			CN	1487798 T	07-04-2004
			CZ	20031915 A3	14-01-2004
			EE	200300351 A	15-12-2003
			ΕP	1359816 A1	12-11-2003
			WO	02060276 A1	08-08-2002
			HU	0401017 A2	30-08-2004
			JP	2004524836 T	19-08-2004
			NO Us	20033283 A 2004062758 A1	24-09-2003 01-04-2004
EP 1048226		02-11-2000	EP	1048226 A1	02-11-2000
EF 1040220	^	02-11-2000	AU	765986 B2	09-10-2003
			AU	4753500 A	13-03-2001
			BR	0010125 A	15-01-2002
			CA	2371696 A1	22-02-2001
			CN	1358067 T	10-07-2002
			WO	0111990 A1	22-02-2001
			NO	20015178 A	23-10-2001
			PL	351599 A1	05-05-2003
			US	6777391 B1	17-08-2004
		الا حادثات الحراقات	ZA	200108412 A	13-01-2003
DE 10219684	A	14-11-2002	DE	10219684 A1	14-11-2002
EP 0880902	Α	02-12-1998	EP	0880902 A1	02-12-1998
			AU	746520 B2	02-05-2002
			AU	8107798 A	30-12-1998
			BR	9809171 A	01-08-2000
			CA	2288184 A1	03-12 - 1998 03-12 - 1998
			WO Ep	9853702 A1 0986312 A1	22-03-2000
			JP	2002514085 T	14-05-200
			NZ	500848 A	21-12-200
			US	6787158 B1	07-09-200
DE 20202562		23-05-2002	DE	20202562 U1	23-05-200